# SOP for Deploying Flask Application on Azure Web Apps

**- Soham Deshmukh**

## Objective:

This Standard Operating Procedure (SOP) outlines the steps required to deploy a Flask application on Azure Web Apps.

**Flask App Link**: https://flask-app-triluxo-technologies-private-limited.azurewebsites.net/

**Github Link** - https://github.com/som-d/Flask-app

## Prerequisites:

1. Azure Account

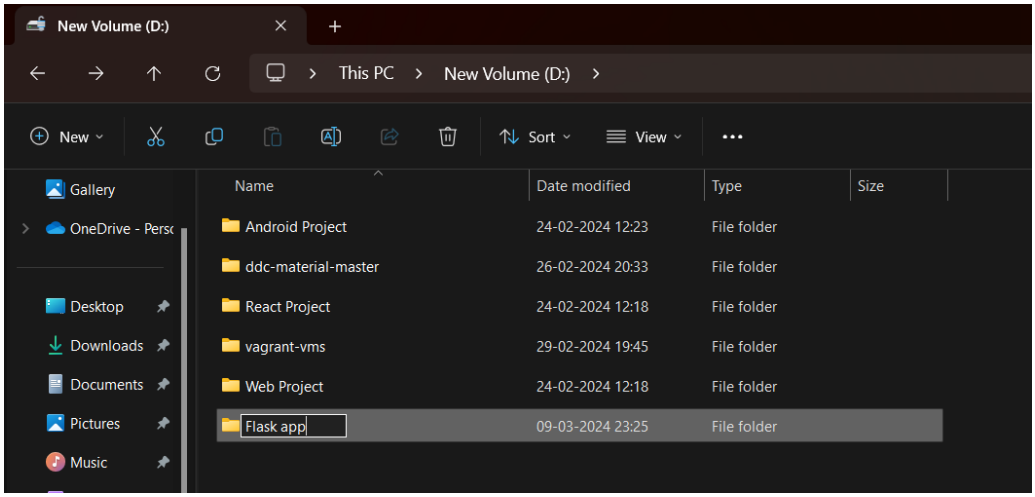
2. Github Account

3. Git: Install Git on your local machine. You can find installation instructions(https://git-scm.com/book/en/v2/Getting-Started-Installing-Git).

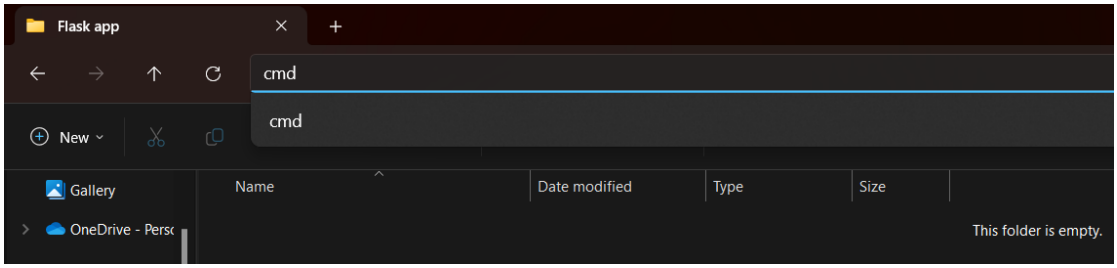
# Procedure:

## 1. Application Setup:

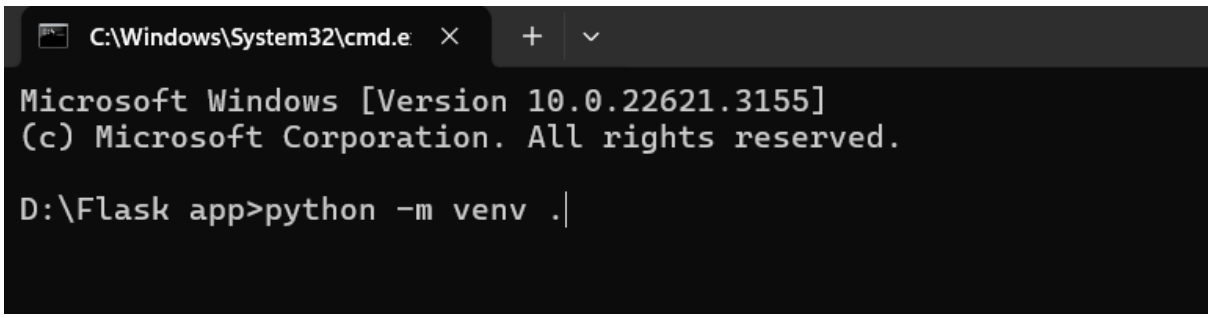
### 1. Creating Folder for Flask application code:




### 2. Open the folder and type cmd in search field:

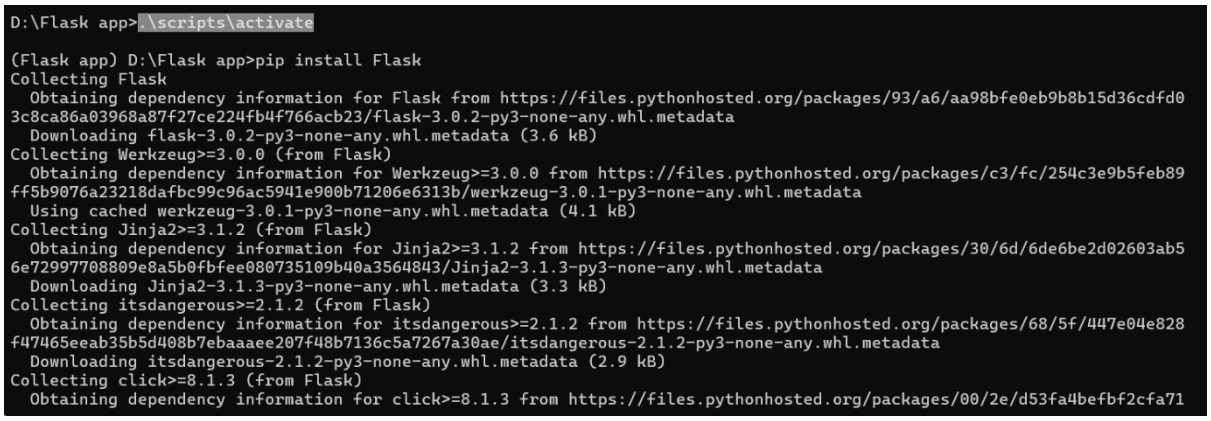


3. **Creating an environment for the Flask app:**
   **Command : python -m venv .**




4. **Activating the Virtual Environment:**

   **Command : .\scripts\activate**
   **Installing Flask : pip install Flask**

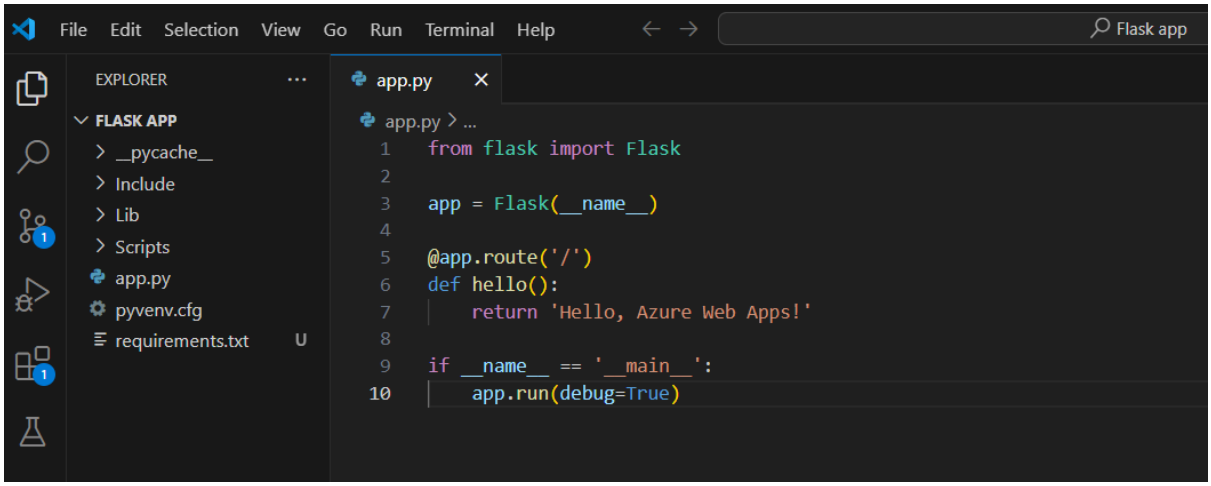



5. **Creating Requirements.txt :**

   **Command : pip3 freeze > requirements.txt # Python3**
   **pip freeze > requirements.txt # Python2**

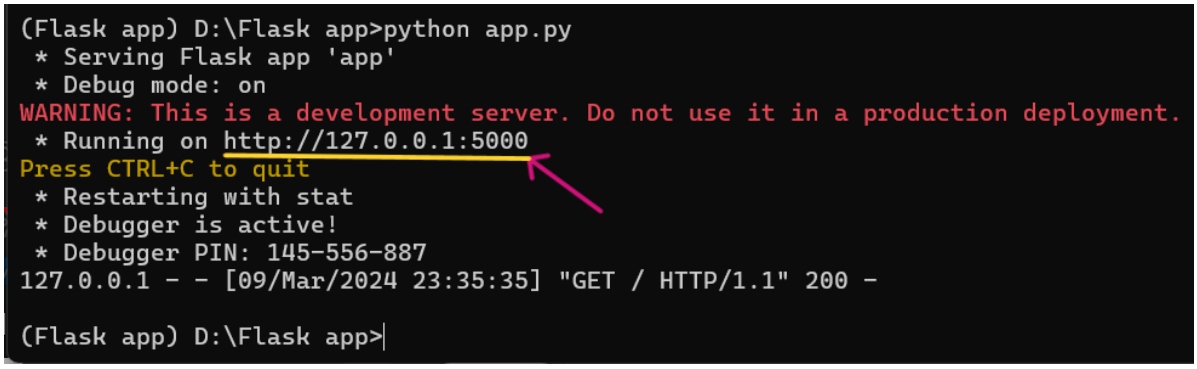
Note – in requirement.txt comment/delete: pywin32==306

## 6. Creating app.py:



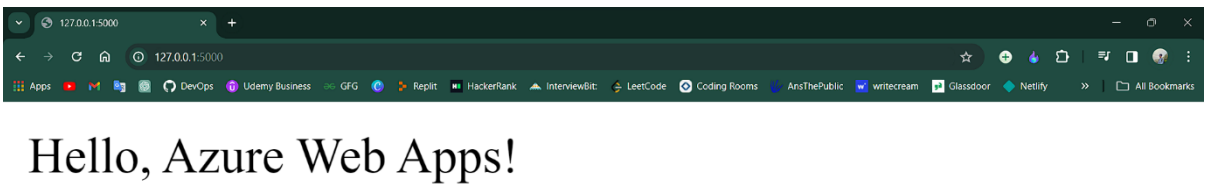

## 7. Starting the server:

**Command : python app.py**




- Copy the URL and past in browser to run Web App.

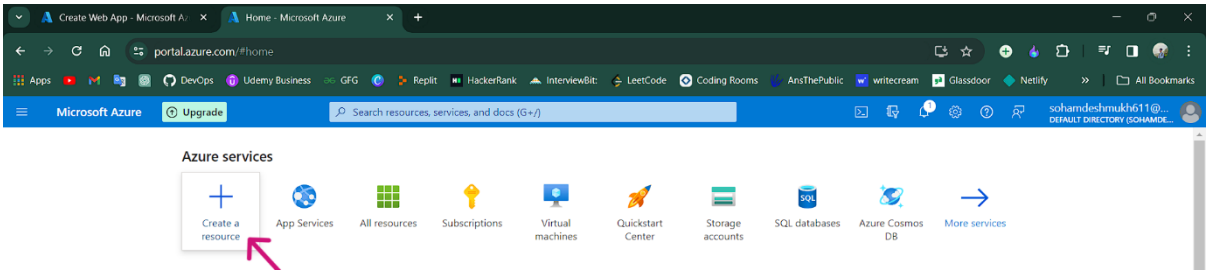
## 8. Flask app loaded on local server:



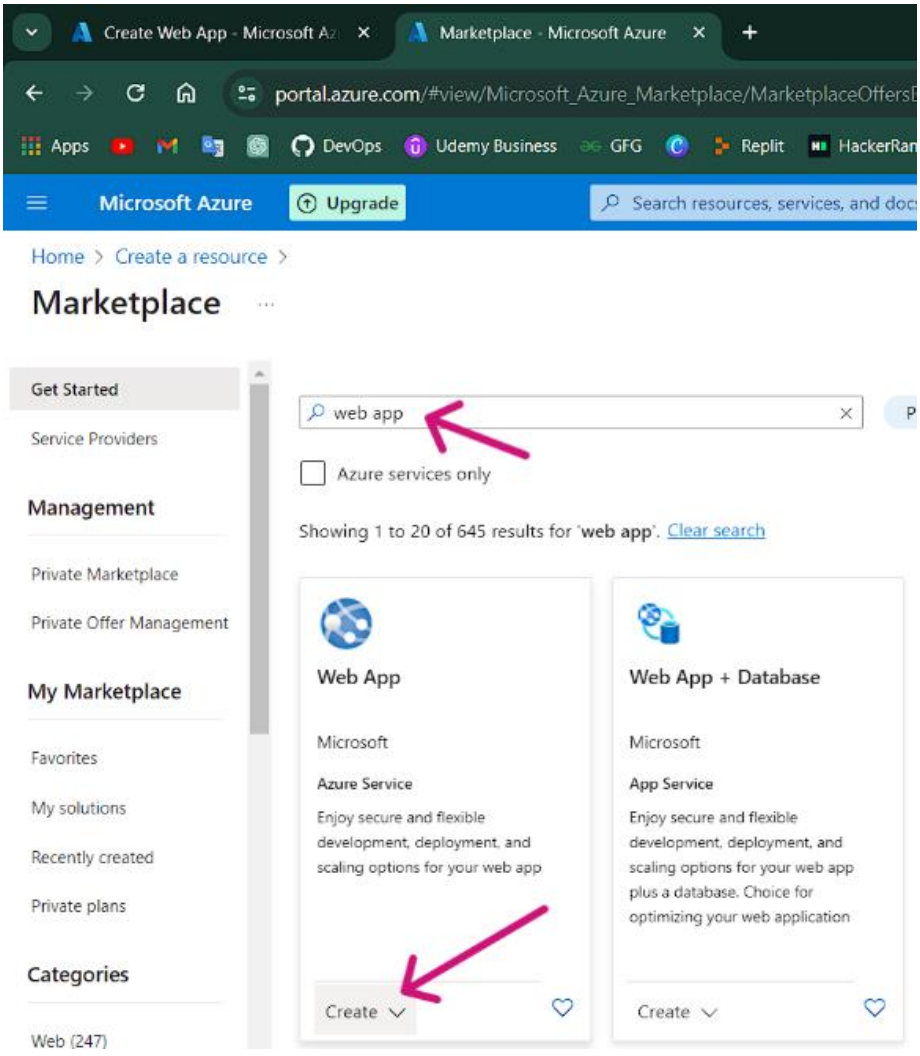
## 2. Create Azure Web App:

Create a new Azure Web App:

### 1. Login to Azure and click Create a resource:

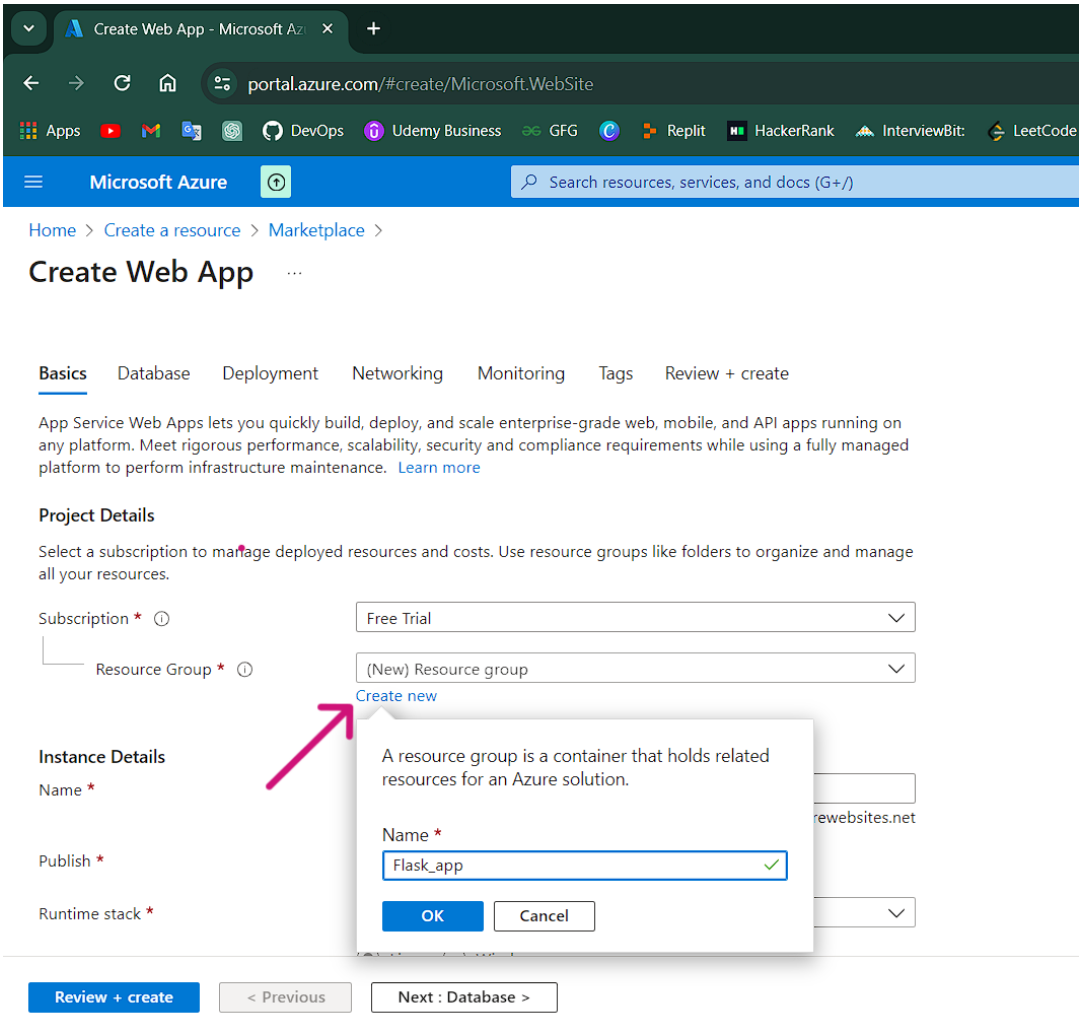



### 2. Search for Web App and click Create:

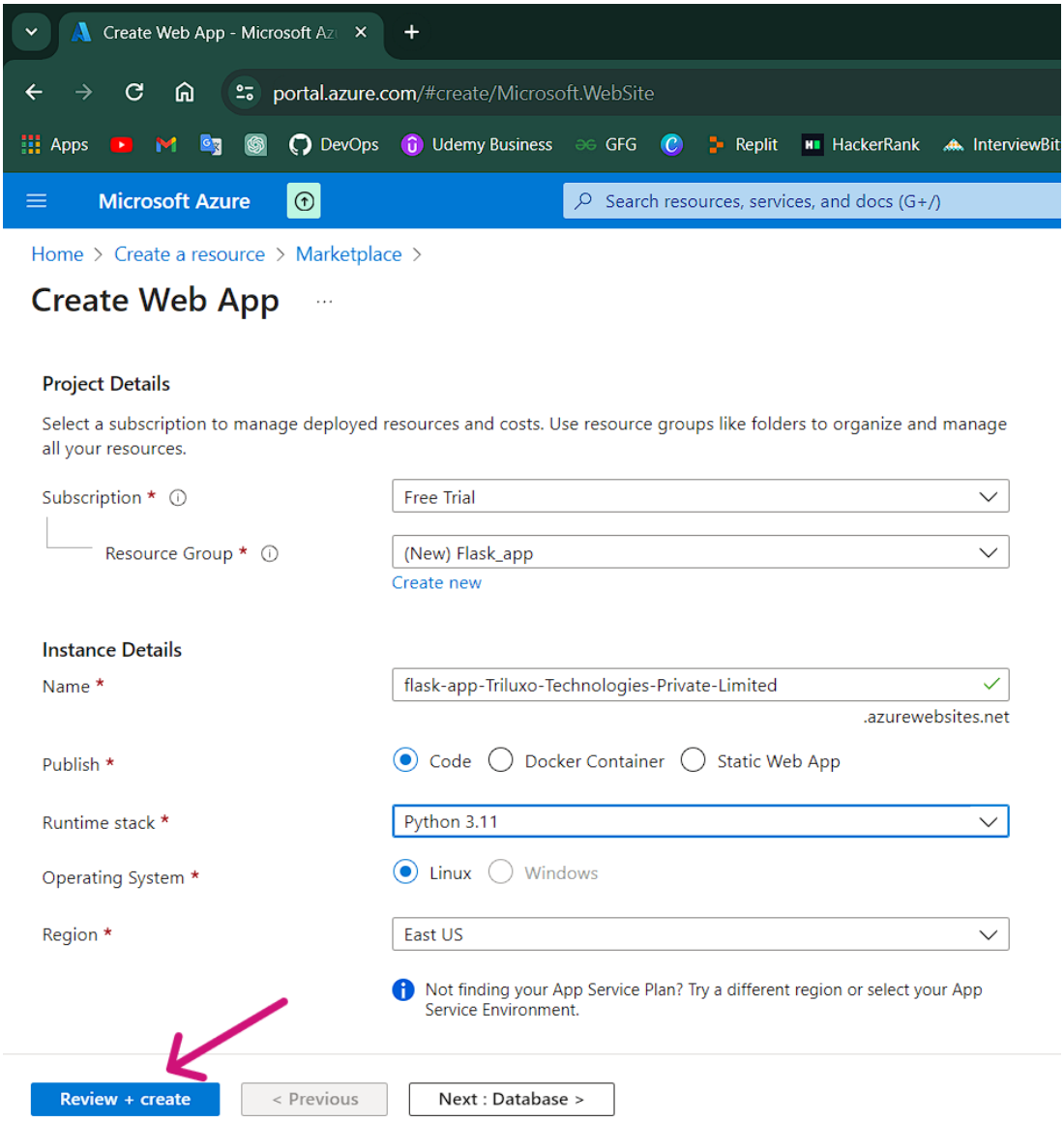


## 3. Creating Resource group:

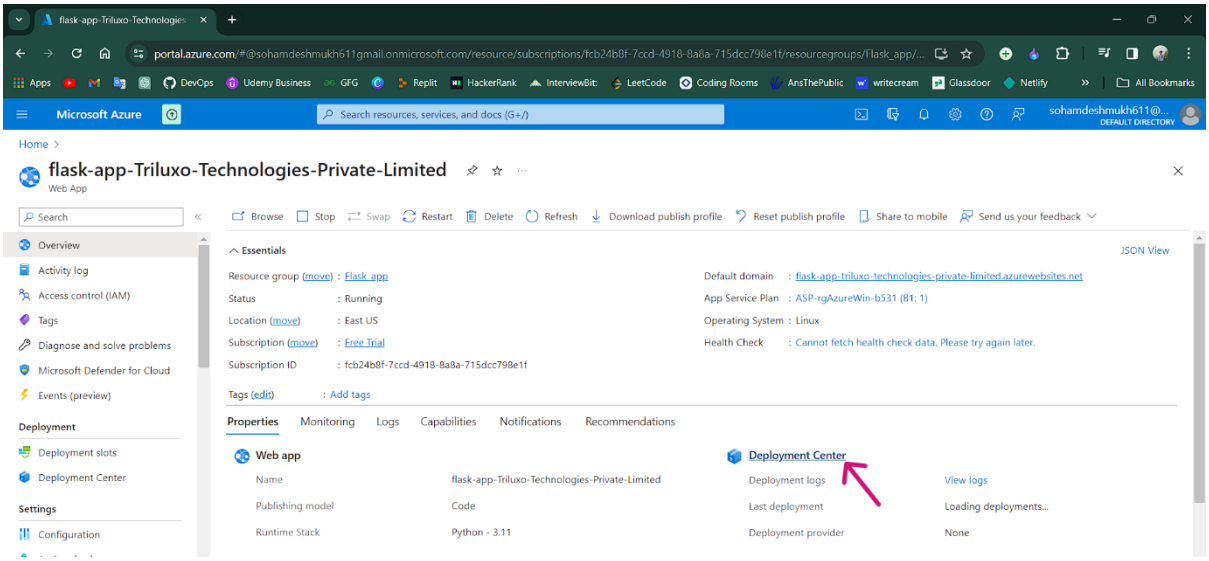
- Click Create New and name the resource group.



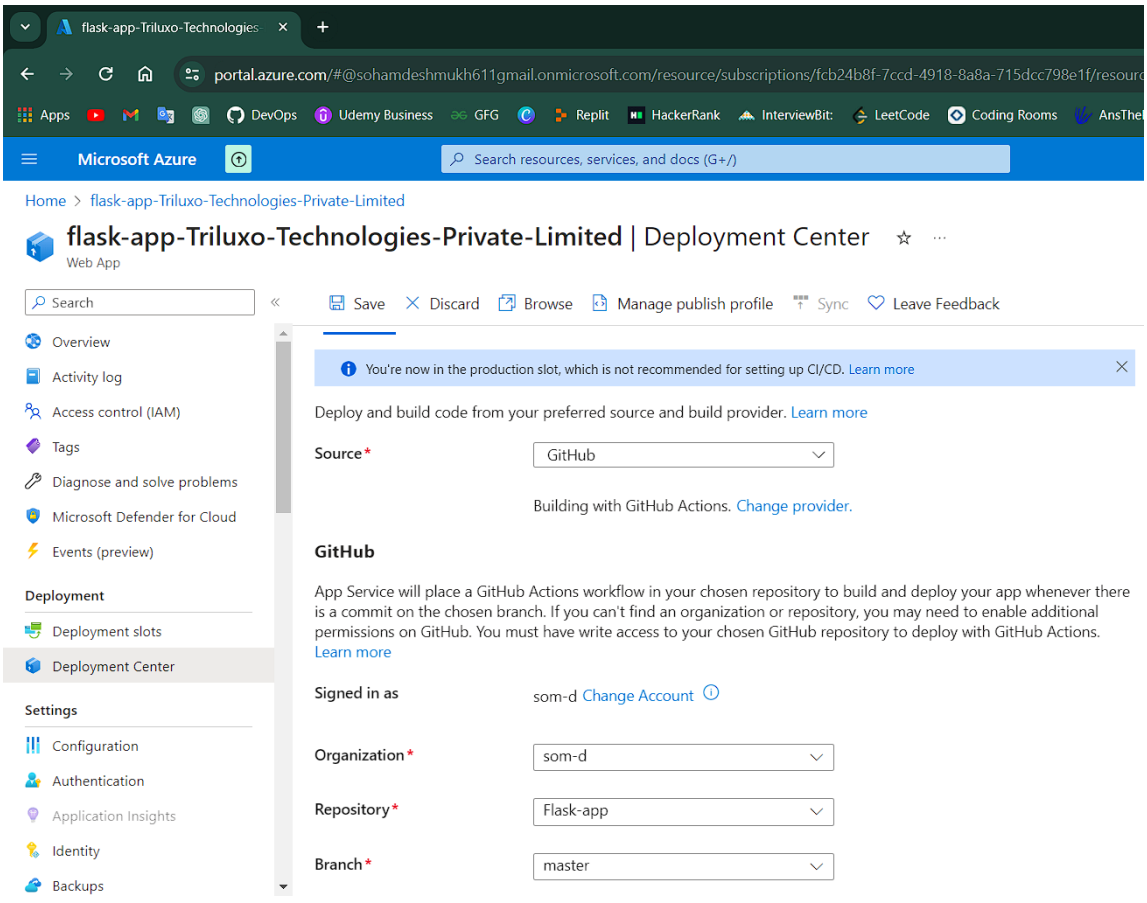
**4. Fill in all required fields and click Create:**



## 5. After creating the web app, click Deploy Center:



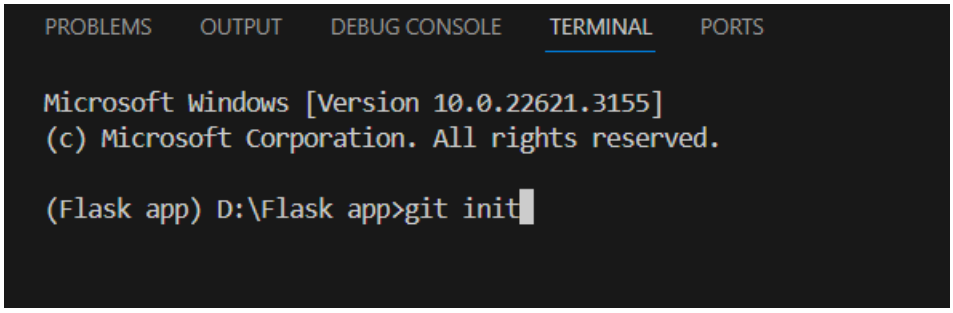

## 6. Fill in all required fields and click Save:



# 3.Azure Web App Deployment:

Deploy the application to the Azure Web App using Git:

1. **Creating an empty Git repository**
   Command : git init

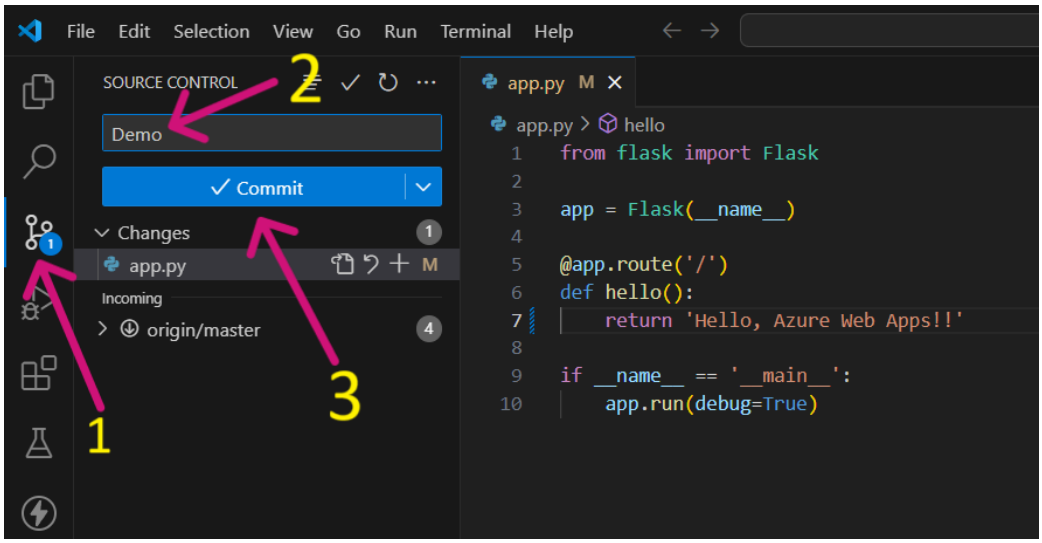



2. **Commit by using GUI:**

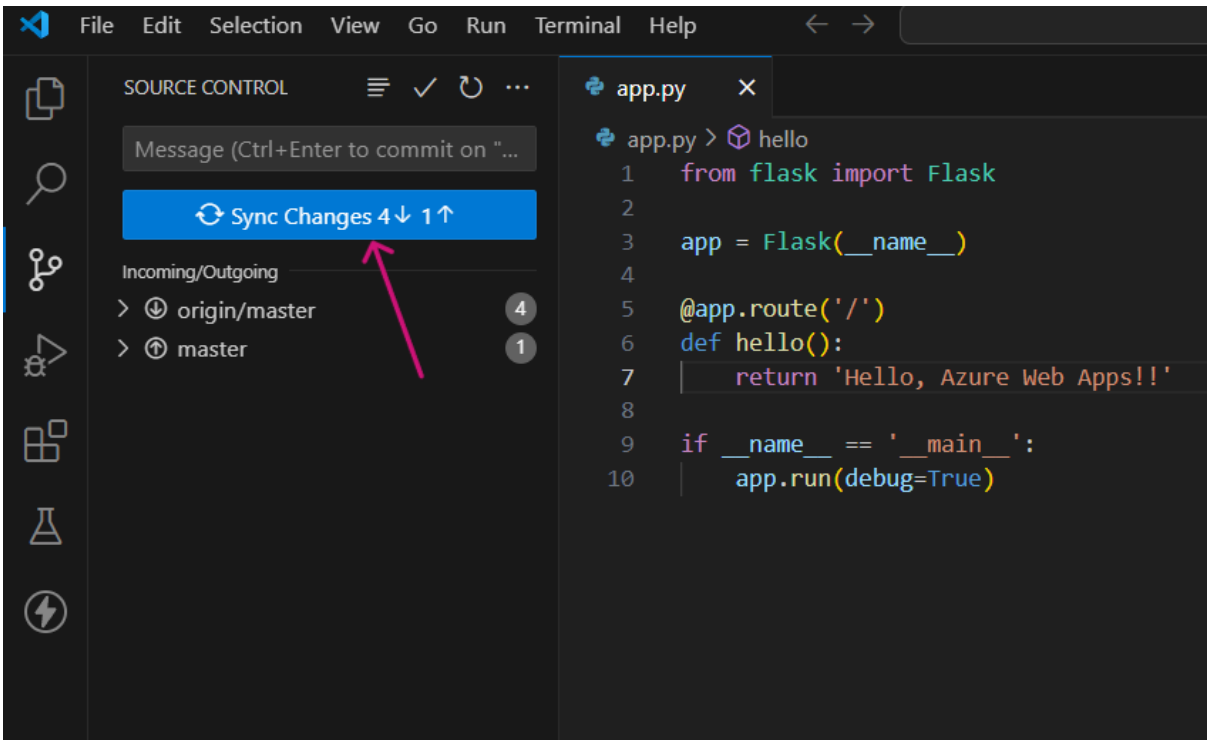
   Arrow 1: Click on Source Control.

   Arrow 2: Add a comment.

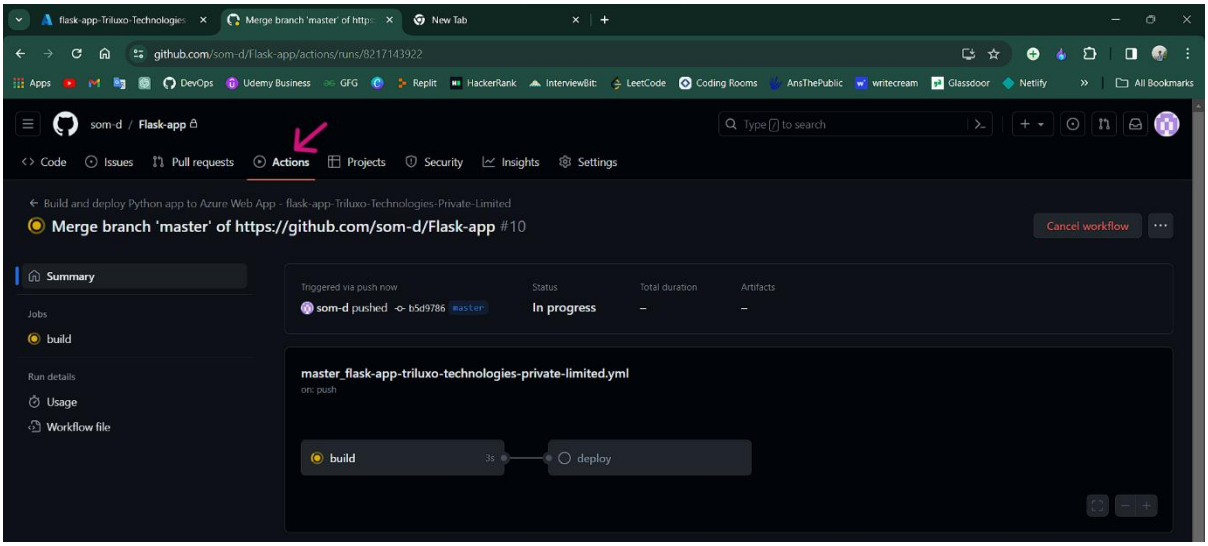
   Arrow 3: Click Commit.

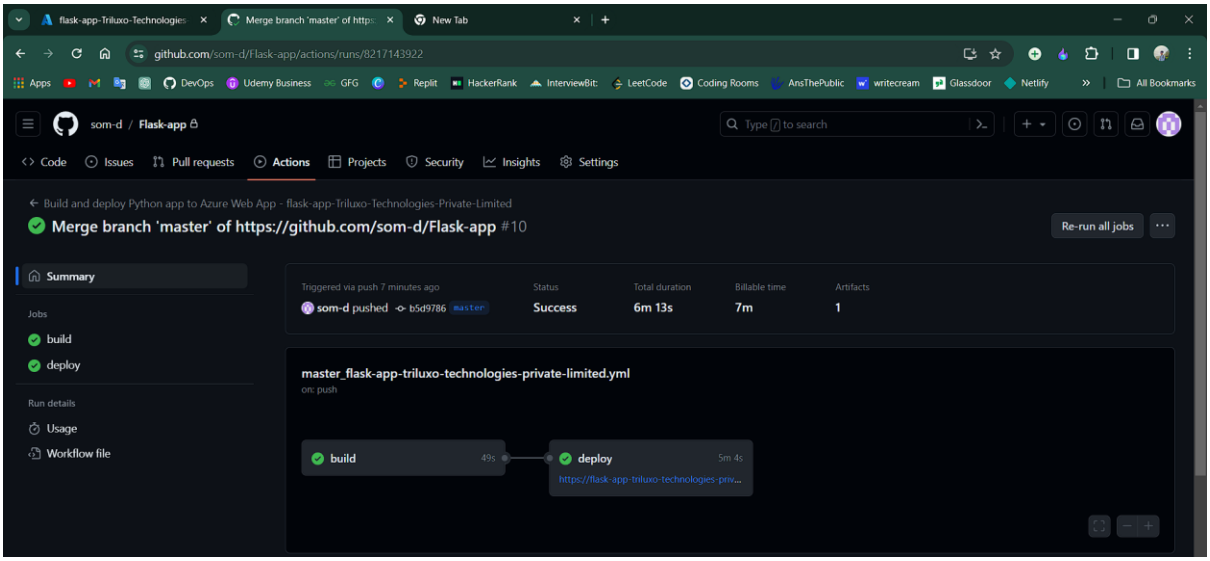


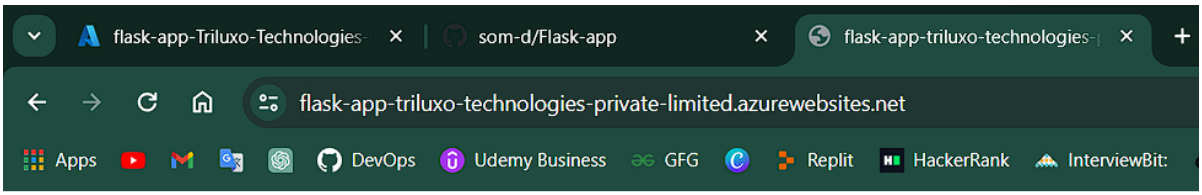
3. **After that click Sync Changes:**




4. **Go to your Git repository and click on Actions to see all your workflows:**





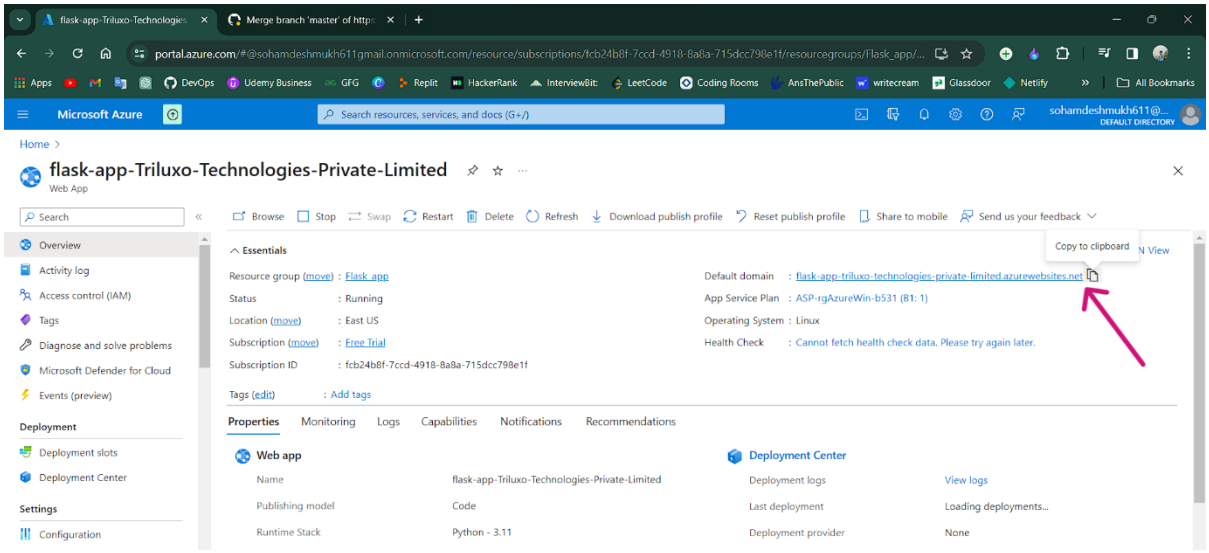

Hello, Azure Web Apps!

## 4. Configuration:

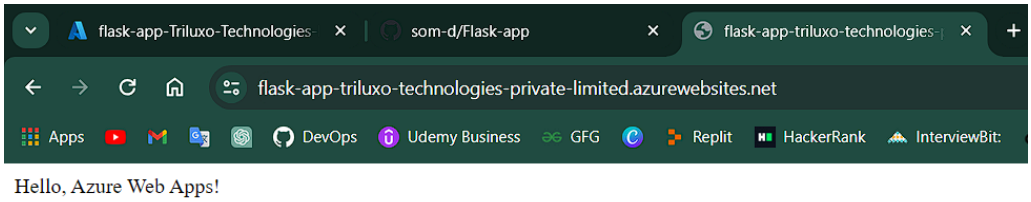
1. Ensure that any necessary environment variables required by the application are configured in the Azure Web App settings.

## 5. Testing:

1. **Once the deployment is complete, access the deployed application using the URL provided by Azure Web Apps.**




2. **You should receive a response "Hello, Azure Web Apps!" indicating that the application is running successfully.**

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## Contributors:

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## Contact Information:

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